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MACHINERY PRODUCTION INCREASES

COMPERENCE DISCUSSES METAL CUTTING -- Kommunist, No 63, 17 Mar 49

A recent conference of engineers and technicians of the machine plants of Terevan, Armenian SSR, considered methods for improving production and in particular, metal cutting.

In the "Avtodetal'" (auto parts) Pflant (chief engineer, A. Mardzhanyan) the machines will be charged over to high-speed cutting. The plant will introduce electric welding of cutting tools out of hard alloy. Flat belting will be replaced with Textrope (multiple V-belt drive) and the electric drive will be increased. The operation of cutting stock of 50 millimeters diemeter has been without from power hack saws; which proved expensive because of the difficulty in getting blades, to a faceplate latine with a steel disk having a diemeter of 1,000 millimeters. Peripheral velocity of the disk is 30 millimeters cond. The burns formed by the disk are removed by working the end of the stock with the disk turning at a few revolutions per minute. In 22 months, this method has been used to cut 10,000 pieces of stock and wear on the disk has been only 1.5 millimeters.

Centralized grinding has been introduced in the Machine Tool Plant Imeni Dierzhinskiy (chief teolmician, N. Mnatsakanyan). This process employs milling cutters and a special milling cutter with a diameter of 120 millimeters and eight teeth, reinforced with type VK-3 hard alloy, which act as flowvable cutters. The cutters are given negative undercuts. Peripheral velocity of the machine is up to 120 meters per limits.

polishing, the plent has introduced a solution of potassium bichromate in water as a middlants. This achieves a saving of emulsior, improves the quality of the polishing, and prevents rusting of the machines.

The sorew-cutting lathe has been modernized and now operates at 815 russ.

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LENINGRAD PLANTS PRODUCE NEW MACHINERY -- Leninskaya Fravda, he 40, 18 100 49

The Leningrad Machinery Plant of the Main Administration of the Construction Materials Industry, Ministry of Petroleum Industry, has started the production of a new pipe layer mounted on an S-80 tractor. It has a hoisting capacity of 10 tons, almost twice as much as previous machines. This new machine is intended to lay petroleum and gas pipe but may also be used for loading and unloading operations. The first three machines were sent to Baku.

Leninskaya Pravda, No 41, 19 Feb 49

The Leningrad Port Machinery Shop has constructed new battery-operated cranes with a hoisting capacity of 2 ton. The cranes have been tested for loads up to 800 kilograms.

Leninskaya Praven, No 41, 19 Feb 49

The Metallurgical Flant imeni Stalin has completed the construction of a 50,000-kilowatt high-pressure steam turbine. The plant succeeded in shortening the production cycle by 2 months, in comparison with the production of the first such machinery.

Leninskaya Pravda, Ho 41, 19 Feb 49

"Lengazapparat" Plant No 3 has started production of automatic safety devices for shutting off gas during temporary cutoffs of the gas supply and when the pressure in the gas main is low.

HELORUSSIAN PLANTS INTRODUCE NEW PRODUCTION METHODS -- Sovetskaya Belorussiya, No 58, 22 Mar 49

The Vitebak Grinder Flant has introduced approvements in screw-threading operations. Technicians of the machine shop have modified the DIP-200 machine, which is manufactured in the "Wasnyy Proletariy" Flant in Moscow. The bed of the machine has been deepened to give greater stability and a more powerful matter has been installed. The machine now has two cutters with the improved angles and lateral edges. The spinile turns at 1,000 rpm with a cutting speed of 80 meters per minute. To increase durability of the cutters, the negative undercuts have been changed from 5-7 degrees to 3 degrees. The cutters are set 0.4 millimeters below the center of the stock being threaded.

Cver-all length of the parts threaded on this machine is about one mater, and the length of the machined part, 486 millimeters. The the sade are paper zoidal with a pitch of 2 millimeters and the depth of the grooves is 1.4 millimeters. The diameter of the parts is 26 millimeters.

Sovetskaya Belorussiya, No 56, 19 Mar 49

The Minek Machine-Tool Plant imeni Kirov has introduced briquetting of castiron scrap to be used in making parts. Thousands of kilograms of metal will be saved, transport will be released, and an estimated economy of 70,000 rubbes will be achieved.

Sovetskaya Belorussiya, No 56, 19 Mar 49

The locomobile plant in Mogilev, Mogilev Oblast, has increased production 3½ times since 1948. New stamps, automatic welding of parts, and assembly-line manufacture of parts have been introduced.

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LITHUANIA CETS MORE MACHINE TOOIS -- Sovetshuya Litva, 20 39, 17 30b 49

The number of machine tools has almost doubled in Lithuanian enterprises during the Five-Year Plan. During the first 2 years the number of notal-cutting machines increased by 1,600, the number of forge present by 450, and the number of woodworking machines by 710.

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